INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/005298

A. CLASSIFICATION OF SUBJECT MATTER

 $\mathsf{Int.Cl.}^7 \\ \mathsf{H01L} \\ 29/786, 29/423, 29/49, 21/288, 21/336 \\ 21/8234, 21/8238, 27/088, 27/092, \\ \mathsf{G02F1/13}, 1/1368, \\ \mathsf{G09F9/00} \\ \mathsf{G02F1/13}, 1/1368, \\ \mathsf{G02F1/13}$

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

 $^{\rm Int.Cl.^{7}}_{\rm H01L~29/786,~29/423,~29/49,~21/288,~21/336~21/8234,~21/8238,~27/088,~27/092,~G02F1/13,~1/1368,~G09F9/00}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published examined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT	

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
x ·	US 6399257 B1(CANON KABUSHIKI KAISHA),2002.06.04. Columns 3-7 & JP 2000-258622 A			
		·		

	Further documents are listed in the continuation of Box C.	Γ	See patent family annex.				
* "A"	considered to be of particular relevance		later document published after the internal priority date and not in conflict with the appunderstand the principle or theory underlying the			ed to	
"E" "L"	national filing date	^	"X" document of particular relevance; the claimed invention of be considered novel or cannot be considered to involventive step when the document is taken alone				
"O"	special reason (as specified) document referring to an oral disclosure, use, exhibition or othe means		"Y" document of particular relevance; the claimed invention cann be considered to involve an inventive step when the document combined with one or more other such documents, su combination being obvious to a person skilled in the art "&" document member of the same patent family			ent is	
Date	of the actual completion of the international search	Date of mailing of the international search report					
	10.06.2005		28. 6. 2005				
Nan	Name and mailing address of the ISA/JP		horized officer	4L	930	 6 1	
	Japan Patent Office		KAZUNARI TANADA				
3-4-	3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 Ext. 3498					

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This interna	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Claims Nos.: ecause they relate to subject matter not required to be searched by this Authority, namely:
be	laims Nos.: ecause they relate to parts of the international application that do not comply with the prescribed requirements to such an axtent that no meaningful international search can be carried out, specifically:
	laims Nos.: ecause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
The "spe to modify material, However, Column 3	national Searching Authority found multiple inventions in this international application, as follows: ectal technical feature" of claims 1-29 relates to "forming a second region by irradiating the substance with light a part of the substance surface wherein the light has a wavelength which is absorbable by the light absorbing and forming a pattern on the second region by discharging a compound including a pattern forming material", this feature is disclosed in a prior art document US 6399257 B1(CANON KABUSHIKI KAISHA), 2002.06.04, 3-7. So the feature cannot be a special technical feature. re exists no special technical feature linking the inventions of claims 1-29 as to form a single general inventive among the inventions.
	s all required additional search fees were timely paid by the applicant, this international search report covers all searchable aims.
	s all scarchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of my additional fee.
	s only some of the required additional search fees were timely paid by the applicant, this international search report covers ally those claims for which fees were paid, specifically claims Nos.:
,	
	o required additional search fees were timely paid by the applicant. Consequently, this international search report is stricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark or	n Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2005/005298

Continuation of: III

Furthermore, the "special technical feature" of claims 18-29 relates to "a thin film transistor comprising: a first conductive layer provided over a light-transmitting substrate; an insulating layer over the light-transmitting substrate and the first conductive layer; a substance including a light-absorbing material over the insulating layer; a second conductive layer selectively over the substance; and a semiconductor layer over the substance and the second conductive layer". However, this feature is disclosed in a prior art document JP 02-130961 A(CANON KABUSHIKI KAISHA), 1990.05.18, FIG 1(Family: none). So the feature cannot be a special technical feature.

And there exists no special technical feature linking the inventions of claims 18-29 as to form a single general inventive concept among the inventions.

Therefore there are no technical relationship which is considered as "special technical feature" (PCT rule 13.2) among the claims 1-29. So this application contains the following groups of invention which are not so linked as to form a single inventive concept under PCT rule 13.2.

Group 1:Claims 1,4

Group 2:Claim 2

Group 3:Claim 3

Group 4:Claim 5

Group 5:Claim 6

Group 6:Claim 7

Group 7:Claim 8

Group 8:Claim 9

Group 9:Claim 10

Group 10:Claims 11,13

Group 11:Claim 12

Group 12:Claim 14

Group 13:Claim 15

Group 14:Claim 16

Group 15:Claim 17

Group 16:Claims 18,20

Group 17:Claim 19

Group 18:Claim 21

Group 19:Claims 22,24

Group 20:Claim 23

Group 21:Claim 25

Group 22: Claims 26,28

Group 23:Claim 27

Group 24:Claim 29